XAVIER DUPUIS

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SUMMARY

- Interest in researching possible software improvements
- Ability to analyze the needs and performance of systems
- Experienced in writing documentation / reports
- Hybrid team working experience (in-person and remotely)
- Professional attitude and self-motivated
- Strong English and French communication skills

EDUCATION

Software Engineer Undergraduate | Security and Mobility   2020 – 2023
> Polytechnique Montréal
> Academic Excellence

Natural Science College Diploma   2017 – 2019
> Cégep régional de Lanaudière
> Terrebonne

SOFTWARE, TECHNICAL AND COMPUTER SKILLS

Languages

JS / TypeScript	C++ / Python
HTML	C#
CSS / SCSS	SQL
Angular	MongoDB
RxJS / NGXS	React / Next.js
Java / Kotlin	GraphQL

Tools

Git / Pipelines	Windows / Linux
UML	Android
Jira	Electron
Makefiles	JetPack Compose
CI/CD	Socket.io
Virtual Machines	Docker(-Compose)
Stripe	Shopify
Sendgrid	Planetscale

SOFTWARE ENGINEER EXPERIENCE

ExpirLot (Final Project) – Polytechnique Montréal & Sononurse   2023
> Develop an innovative learning platform for medical training, incorporating the purchase of equipment unusable in a medical context.
> Implement a high-performance architecture (Next.js, React, and Typescript) to develop a serverless environment, ensuring a reliable and efficient product.
> Integrate Shopify (GraphQL and Apollo) for the purchase of products/training and Stripe for subscription management.
> Lead software process activities, project management (Jira), continuous deployment (Vercel), pull requests, and versioning (Github), etc.
> Integrate email delivery (Sendgrid), interactive interface editing (Builder.IO), and SQL data storage (Planetscale).

Software Engineer Intern – Genetec Inc.   2023
> Continuity of the 2022 internship
> Deepen technical knowledge (C# reflection, RESTful API, generic types, E2E testing, injection) and software process activities (code reviews, PRs, etc.)
> Conceptualize, analyze and implement medium to large scale functionalities in the ecosystem of a product in production

PolyScrabble LOG3900 – Polytechnique Montréal   2022
> Produce a response to a Request for Proposals with architectural diagrams, communications protocols and product prototype
> Design a complete client-server architecture (Node.js, Express, Socket.io, MongoDB) for Mobile device (Android, Kotlin, JetPack Compose) and Desktop device (Electron, Angular, Typescript)
> Perform project management, schedule meetings and agenda, track progress of tasks, schedule continuous integration and deployment
> Ensure the different activities / disciplines of software development process

Software Engineer Intern – Genetec Inc.   2022
> Analyze, segment and develop a feature of the software product
> Synthesize and document the result of their process / work
> Investigate, troubleshoot, and repair known (and unknown) software problems
> Understand and appropriate business software development processes

Hackatown 2022 (Part-Winner) – Polytechnique Montréal   2022
> Create and design a concrete prototype to resolve a real-world issue
> Develop a full stack application with Angular/Typescript/HTML/SCSS, Node.js, Mongo DB, etc.
> Deploy to Amazon Web Services and Github

WEB Application project development – Polytechnique Montréal   2021
> Complete the second-year integrator project: Scrabble online game
> Design a WEB application with Angular, Typescript, HTML, SCSS
> Implement Client – Server architecture with Node.js, Socket.io, REST API, Mongo DB, etc.
> Ensure teamwork and continuous integration with Git and Gitlab

Hackatown 2021 – Polytechnique Montréal   2021
> 48-hour team programming competition (remote)
> Detect diseased fruit plants from their leaves' visual aspect
> Design a front-end web application with Angular (and HTML + CSS)
> Implement an intelligent "Classifier" with Tensorflow.js

WORK EXPERIENCE

Instructor / Executive assistant – Formation Samo, Repentigny   2021 –
> Provide a learning experience to students on many topics (Windows, Word, Excel, Mathematics, etc.)
> Manage, transmit and oversee courses documents
> Ease exchanges and communications on the virtual course platform